

| | |
|--|--|
| SECTION V-C - TV BROADCAST ENGINEERING DATA | FOR COMMISSION USE ONLY File No. _____ SSB Referral Date _____ Referred By _____ |
| Name of Applicant _____ | Call Letters (if issued) _____ |

Purpose of Application: (check appropriate boxes)

| | |
|--|--|
| <input type="checkbox"/> Construct a new (main) facility <input type="checkbox"/> Modify existing construction permit for main facility <input type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Construct a new auxiliary antenna <input type="checkbox"/> Modify existing construction permit for auxiliary antenna <input type="checkbox"/> Modify licensed auxiliary antenna |
|--|--|

If purpose is to modify, indicate the nature of change(s) by checking appropriate box(es) and specify the file number(s) of the authorizations affected.

| | |
|---|--|
| <input type="checkbox"/> Antenna supporting structure height <input type="checkbox"/> Antenna height above average terrain <input type="checkbox"/> Antenna location <input type="checkbox"/> Main Studio location per 47 C.F.R. Section 73.1125(b)(2) | <input type="checkbox"/> Effective radiated power <input type="checkbox"/> Frequency <input type="checkbox"/> Antenna system <input type="checkbox"/> Other (summarize) |
|---|--|

File Number(s) _____

1. Allocation:

| Channel No. | Offset (check one) | Principal community to be served: | Zone (check one) | | | |
|-------------------------------|--------------------------------|--|-----------------------------|--------------|-------|----------------------------|
| _____ | <input type="checkbox"/> Plus | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; border-bottom: 1px solid black;">County</td> <td style="width: 33%; border-bottom: 1px solid black;">City or Town</td> <td style="width: 33%; border-bottom: 1px solid black;">State</td> </tr> </table> | County | City or Town | State | <input type="checkbox"/> I |
| | County | | City or Town | State | | |
| | <input type="checkbox"/> Minus | | <input type="checkbox"/> II | | | |
| <input type="checkbox"/> Zero | <input type="checkbox"/> III | | | | | |

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude and East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed. *(The Commission requires coordinates based on NAD 27.)*

| | |
|---|--|
| Latitude ° ' " | Longitude ° ' " |
|---|--|

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. _____

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. _____

Section V-B - TV BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?

☐ Yes ☐ No

If Yes, list old coordinates.

| | | | | | | | |
|----------|---|---|---|-----------|---|---|---|
| Latitude | ° | ' | " | Longitude | ° | ' | " |
|----------|---|---|---|-----------|---|---|---|

5. Is the transmitting antenna mounted on a tower that has been registered with the Commission?

☐ Yes ☐ No

If Yes, list the Antenna Structure Registration Number: _____

If No, has an application (FCC Form 854) been filed with the Commission?

☐ Yes ☐ No

If No, attach as an Exhibit an explanation why the Antenna Structure does not meet FAA Notification criteria as defined under 47 C.F.R. Section 17.7 and, therefore, does not require registration.

Exhibit No.

☐ Yes ☐ No

6. Has the FAA been notified of the proposed construction?

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.

Date _____ Office where filed _____

7. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

| | Landing Area | Distance (km) | Bearing (degrees True) |
|-----|--------------|---------------|------------------------|
| (a) | _____ | _____ | _____ |
| (b) | _____ | _____ | _____ |

8. (a) Elevation (*to the nearest meter*)

(1) of site above mean sea level; _____ meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and _____ meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. _____ meters

- (b) Height of antenna radiation center: (to the nearest meter)

(1) above ground; _____ meters

(2) above mean sea level [(a)(1) + (b)(1)]; and _____ meters

(3) above average terrain. _____ meters

Section V-C - TV BROADCAST ENGINEERING DATA (Page 3)

9. Attach as an Exhibit sketch(es) of the supporting structure, labeling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of AM radiator.

Exhibit No.

10. Maximum visual effective radiated power: _____ kw

11. Antenna

(a) Manufacturer _____ (b) Model No. _____

- (c) Is a directional antenna proposed?

☐ Yes ☐ No

If Yes, specify major lobe azimuth(s) _____ degrees True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685.

Exhibit No.

- (d) Is electrical beam tilt proposed?

☐ Yes ☐ No

If Yes, specify _____ degrees electrical beam tilt and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685.

Exhibit No.

- (e) Is mechanical beam tilt proposed?

☐ Yes ☐ No

If Yes, specify _____ degrees mechanical beam tilt toward azimuth _____ degrees True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685.

Exhibit No.

- (f) The proposed antenna is: (check only one box)

☐ Horizontally polarized ☐ Circularly polarized ☐ Elliptically polarized

12. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.685(a) and (b)?

☐ Yes ☐ No

If No, attach as an Exhibit justification therefor, including amounts and percentages of population and area that will not receive City Grade service.

Exhibit No.

13. Will the main studio be located within the station's predicted principal community contour as defined by 47 C.F.R. Section 73.685(a)?

☐ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

14. Does the proposed facility satisfy the requirement of 47 C.F.R. Section 73.610?

☐ Yes ☐ No

If No, attach as an Exhibit justification therefor, including a summary of any previously granted waivers.

Exhibit No.

Section V-C - TV BROADCAST ENGINEERING DATA (Page 4)

15. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters; or (b) in the general vicinity, any nonbroadcast (*except citizens band or amateur*) radio stations or any established commercial or government receiving stations?

☐ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (*including that caused by intermodulation*) to facilities in existence or authorized prior to grant of this application. (*See 47 C.F.R. Sections 73.685(d) and (g).*)

Exhibit No.

16. Attach as an Exhibit a topographic map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the provisions of 47 C.F.R. Section 73.684(g). The map must further display clearly and legibly the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.

17. Attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

- (a) the proposed transmitter location, and the radials along which profile graphs have been prepared;
- (b) the City Grade, Grade A and Grade B contours; and
- (c) the legal boundaries of the principal community to which the station is or will be licensed.

18. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (*latest census*) within the predicted Grade B contour.

Area _____sq. km. Population _____

19. For an application involving an auxiliary backup facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

- (a) the proposed auxiliary Grade B contour; and
- (b) the Grade B contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

(Main facility license file number: _____)

Section V-C - TV BROADCAST ENGINEERING DATA (Page 5)

20. Terrain and coverage data (to be calculated in accordance with 47 C.F.R. Section 73.684)

Source of terrain data: (check only one box below)

- ☐ Linearly interpolated 30-second database (Source: _____)
- ☐ 7.5 minute topographic map
- ☐ Other (briefly summarize)

| Radial bearing (degrees True) | Height of radiation center above average elevation of radial from 3 to 16 km (meters) | Predicted Distances | | |
|----------------------------------|---|--|---|---|
| | | To the City Grade Contour (kilometers) | To the Grade A contour (kilometers) | To the Grade B contour (kilometers) |
| * | | | | |
| 0 | | | | |
| 45 | | | | |
| 90 | | | | |
| 135 | | | | |
| 180 | | | | |
| 225 | | | | |
| 270 | | | | |
| 315 | | | | |

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

21. Environmental Statement. (See 47 C.F.R. Section 1.1301 et seq.)

- (a) Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact? ☐ Yes ☐ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1.1311.

Exhibit No.

- (b) If No, explain briefly why not.

- (c) Pursuant to OST Bulletin No. 65, October 1985, entitled "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation," the applicant must explain in an Exhibit what steps will be taken to limit the RF radiation exposure to the public and to persons authorized access to the tower site. In addition, where there are multiple contributors to radiofrequency radiation, you must certify that the established RF radiation exposure procedures will be coordinated with all stations.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

| | |
|-------------------------|---|
| Name (Typed or Printed) | Relationship to Applicant (e.g., Consulting Engineer) |
| Signature | Address (include ZIP Code) |
| Date | Telephone No. (include Area Code) |